

CONSTRUCTION OF LOCKS.

LETTER

FROM

THE SECRETARY OF WAR,

TRANSMITTING,

A PARTIAL RESPONSE TO A SENATE RESOLUTION OF APRIL 9, 1914, A TABULAR STATEMENT OF THE NUMBER OF LOCKS THAT THE GOVERNMENT OF THE UNITED STATES HAS CONSTRUCTED, THE LOCATION AND COST OF EACH LOCK, AND NUMBER OF MEN EMPLOYED IN ITS OPERATION DURING THE FISCAL YEAR ENDED JUNE 30, 1913.

APRIL 23, 1914.—Referred to the Committee on Commerce and ordered to be printed:

WAR DEPARTMENT,
Washington, April 20, 1914.

THE PRESIDENT OF THE SENATE.

SIR: I have the honor to acknowledge, by reference from the Secretary of the Treasury, of copy of resolution of the Senate, dated April 9, 1914, asking for certain information in regard to the commerce of the United States.

In partial compliance with request therein there is transmitted herewith a tabular statement of the number of locks that the Government of the United States has constructed, the location and cost of each lock, and number of men employed in its operation during the fiscal year ending June 30, 1913.

Additional data covering the cost of the operation and the tonnage that passed through each lock will be forwarded shortly.

Very respectfully,

LINDLEY M. GARRISON,
Secretary of War.

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Part of data concerning locks and dams in operation July 1, 1913, called for by Senate resolution of Apr. 9, 1914.

Location.	No.	Miles from mouth.	Men.	Cost of construction
CONGAREE RIVER.				
Granby, S. C.....	(1)	51.00		\$182,98
COOSA RIVER.				
Ashville, Ala.....	1	153.00	1	106,17
Ragland, Ala.....	2	149.50	1	159,16
Do.....	3	148.00	1	110,74
Lincoln, Ala.....	4	127.00	1	297,35
Wetumpka, Ala.....	5	11.00	1	348,01
TOMBIGBEE RIVER.				
McGrew Shoals, Ala.....	1	110.00	4	554,00
Demopolis, Ala.....	4	230.00	4	402,63
WARRIOR RIVER.				
Cedarville, Ala.....	5	246.20	3	429,20
Sawyer ville, Ala.....	6	266.70	3	370,82
Pickens Bay, Ala.....	7	282.30	3	225,60
Log Shoals, Ala.....	8	298.80	3	212,40
Mikes Bar, Ala.....	9	315.20	3	202,00
Tuscaloosa, Ala.....	10	361.90	2	244,50
Do.....	11	362.20	2	170,00
Do.....	12	363.20	2	160,50
Tidewater, Ala.....	13	370.10	3	203,70
Arnolds Shoal, Ala.....	14	373.50	3	413,85
Rose Shoals, Ala.....	15	380.20	3	428,80
MISSISSIPPI RIVER.				
Plaquemine, La.....	(2)	220.00	12	1,302,00
Moline, Ill.....	(3)	2,078.70	7	198,76
BAYOU TECHE, LA.				
Bayou Teche, La.....	(4)	71.00	3	257,72
INLAND WATERWAY, FRANKLIN TO MERMENTAU, LA.				
Schooner Bayou, La.....	(5)	5.00	3	46,01
TRINITY RIVER.				
Ferris, Tex.....	6	470.50	2	
Do.....	4	482.50	2	
Elam, Tex.....	1	499.50	2	
OUACHITA RIVER.				
Roland Raft, Ark.....	6	238.00	4	566,07
Franklin Shoals, Ark.....	8	297.00	4	596,24
WHITE RIVER, ARK.				
Near Batesville, Ark.....	1	299.00		278,78
8 miles above Batesville, Ark.....	2	308.70		297,82
17 miles above Batesville, Ark.....	3	318.60		237,16
OSAGE RIVER.				
Brenekes Shoal, Mo.....	1	7.00	5	627,97
CUMBERLAND RIVER.				
Fox Bluff, Tenn.....	A	151.20	2	390,60
Nashville, Tenn.....	1	190.00	6 2	355,00
Madison, Tenn.....	2	201.60	6 2	282,57
Hendersonville, Ky.....	3	228.60	6 2	314,72
Gallatin, Tenn.....	4	237.30	6 2	311,69
Lebanon, Tenn.....	5	264.30	6 2	363,41
Hartsville, Tenn.....	6	282.20	6 2	287,27
Carthage, Tenn.....	7	299.20	6 2	347,18
Burnside, Ky.....	21	486.80	2	374,07

¹ Granby, S. C.

² Plaquemine Lock.

³ Moline Lock.

⁴ Keystone Lock.

⁵ Schooner Bayou.

⁶ 2 extra men employed during rafting season.

Report of data concerning locks and dams in operation July 1, 1913, called for by Senate resolution of Apr. 9, 1914—Continued.

Location.	No.	Miles from mouth.	Men.	Cost of construction.
TENNESSEE RIVER.				
River Shoals.....	A	286.30	1	\$104,907.00
Do.....	B	285.00	1	137,694.00
rence, Tenn.....	1	277.00	1	116,573.00
Do.....	2	275.10	1	66,055.00
Do.....	3	273.20	1	137,644.00
Shoals, Tenn.....	4	271.60	1	115,228.00
Do.....	5	269.70	1	137,407.00
Do.....	6	265.60	1	148,611.00
Do.....	7	264.20	1	137,407.00
Do.....	8	263.50	1	115,000.00
Do.....	9	263.20	1	115,000.00
Shoals, Tenn.....		226.50	4	1,103,520.00
MONONGAHELA RIVER.				
burgh, Pa. ¹	1	1.90	22	² 404,900.00
ddock, Pa. ¹	2	11.20	26	³ 681,914.85
abeth, Pa. ¹	3	23.80	26	³ 577,193.69
th Charleroi, Pa. ¹	4	41.20	18	² 526,651.30
wnsville, Pa. ¹	5	56.70	13	³ 754,564.73
s Landing, Pa. ¹	6	68.70	4	
r Geneva, Pa. ¹	7	82.50	2	
Dunkard Creek, Pa.....	8	87.50	2	245,900.00
rds Rock, W. Va.....	9	93.30	2	191,000.00
gantown, Pa.....	10	102.60	2	228,358.89
ngton, W. Va.....	11	104.90	2	245,582.66
half mile below Little Falls, W. Va.....	12	109.80	2	218,464.60
iles above Little Falls, W. Va.....	13	111.80	2	208,604.76
rsville, W. Va.....	14	115.50	2	228,040.12
lt, W. Va.....	15	124.10	2	193,742.77
ALLEGHENY RIVER.				
sburgh, Pa.....	1	1.70	13	594,373.07
inwall, Pa.....	2	7.00	5	544,947.90
ngdale, Pa.....	3	16.70	2	542,348.25
LITTLE KANAWHA RIVER.				
ersburg, W. Va.....	1	3.50	2	70,314.00
e, W. Va.....	2	14.50	2	60,623.00
abeth, W. Va.....	3	25.50	2	60,747.00
stine, W. Va.....	4	31.00	2	58,680.00
a, W. Va.....	5	40.50	2	167,875.00
KANAWHA RIVER.				
Montgomery, W. Va.....	2	84.50	5	⁴ 363,608.00
erside, W. Va.....	3	79.50	5	⁵ 490,000.00
rinson, W. Va.....	4	73.25	8	⁵ 275,000.00
met, W. Va.....	5	67.25	8	⁵ 275,000.00
leston, W. Va.....	6	54.00	8	⁴ 337,625.00
Albans, W. Va.....	7	44.00	8	⁴ 341,136.00
field, W. Va.....	8	36.00	8	⁴ 281,925.00
ds, W. Va.....	9	25.50	8	⁶ 307,120.00
ertsburg, W. Va.....	10	19.00	8	⁶ 282,006.00
at Pleasant, W. Va.....	11	1.75	8	⁶ 637,803.00
BIG SANDY RIVER.				
ettsburg, Ky.....	1	.30	3	318,417.64
chard, W. Va.....	2	1.00	3	278,893.10
isa, Ky.....	3	26.30	3	396,304.98
sa Fork, Ky.....	1	35.50	3	250,128.70
Fork, Ky.....	1	31.00	3	268,452.26
KENTUCKY RIVER.				
ollton, Ky.....	1	4.00	2	220,300.17
port, Ky.....	2	31.00	2	151,983.01
, Ky.....	3	42.00	2	135,857.54
ukfort, Ky.....	4	65.00	2	131,607.96

Nos. 1-7 were purchased in 1897 from Monongahela Navigation Co. for \$3,761,615.46, including floating lock. Subsequently \$21,465.10 and \$89,159.19 were expended for improvements at Dams 3 and 6, respectively.

¹ Estimated cost of reconstruction—not completed.

² Cost of new locks and dams.

³ Actual cost of lock (and dam?). ⁵ Estimated cost of new lock. ⁶ Actual cost of lock and dam.

Part of data concerning locks and dams in operation July 1, 1913, called for by Senate resolution of Apr. 9, 1914—Continued.

Location.	No.	Miles from mouth.	Men.	Cost of construction.
KENTUCKY RIVER—continued.				
Tyrone, Ky.....	5	82.20	2	\$137,4
Salvisa, Ky.....	6	96.20	2	314,8
High Bridge, Ky.....	7	117.00	2	290,7
Hickman, Ky.....	8	139.20	2	275,4
Valley View, Ky.....	9	157.00	2	237,6
Ford, Ky.....	10	176.50	2	322,6
College Hill, Ky.....	11	200.00	3	296,5
Irvine, Ky.....	12	220.80	3	425,6
Evelyn, Ky.....	13	239.50	3	451,3
OHIO RIVER.				
West Bellevue, Pa.....	1	4.70	17	973,6
Corapolis, Pa.....	2	9.00	17	977,2
Glen Osborne, Pa.....	3	10.90	16	1,157,2
Legionville, Pa.....	4	18.60	16	1,085,9
Rochester, Pa.....	5	23.90	16	1,086,0
Merrill, Pa.....	6	28.80	16	1,123,2
Kenilworth, W. Va.....	8	46.10	14	1,166,3
Brilliant, Ohio.....	11	76.30	13	1,162,0
McMechen, W. Va.....	13	95.80	13	1,210,2
Vienna, W. Va.....	18	179.30	9	910,2
Hogsett, W. Va.....	26	278.00		1,072,3
Pernbank, Ohio.....	37	481.30	16	1,175,3
Louisville, Ky.....	L. & P.	604.00	17	1,316,3
WABASH RIVER.				
Mount Carmel, Ind.....	(2)	95.10	1	260,0
GREEN RIVER.				
Spottsville, Ky.....	1	8.50	3	179,0
Rumsey, Ky.....	2	62.80	3	455,0
Rochester, Ky.....	3	108.50	3	121,0
Woodbury, Ky.....	4	149.50	2	125,0
Glenmore, Ky.....	5	167.50	2	173,0
Brownsville, Ky.....	6	181.00	2	168,0
BARREN RIVER, KY.				
Greencastle, Ky.....	1	15.00	2	135,0
ROUGH RIVER, KY.				
Leavenworth, Ky.....	1	8.00	1	72,0
FOX RIVER, WIS.				
De Pere, Wis.....	1	7.08	1	43,0
Little Kaukauna, Wis.....	2	12.95	1	31,0
Rapids Croche, Wis.....	3	18.93	1	18,0
Kaukauna, fifth.....	4	22.76	1	13,0
Kaukauna, fourth.....	5	23.07	1	37,0
Kaukauna, third.....	6	23.24	1	39,0
Kaukauna, second.....	7	23.41	³ 1	24,0
Kaukauna, first.....	8	23.62	1	80,0
Kaukauna guard.....	8	24.00	1	12,0
Combined lower little chute.....	9	25.40	1	102,3
Combined upper.....	10	25.43	1	48,5
Little chute, second.....	11	26.37	1	24,0
Little chute, first.....	12	25.55	1	53,0
Cedars.....	13	27.33	1	64,9
Appleton, fourth.....	14	30.73	1	32,8
Appleton, third.....	15	31.39	1	22,9
Appleton, second.....	16	31.58	³ 1	96,5
Appleton, first.....	17	31.94	³ 1	42,0
Menasha.....	18	37.00	1	61,3
Eureka.....	19	80.87	1	59,8
Berlin.....	20	89.18	1	75,5
White River.....	21	99.17	1	62,3
Princeton.....	22	108.57	1	65,6
Grand River.....	23	129.27	1	4,1
Montello.....	24	132.60	1	8,2
Governor Bend.....	25	156.71	1	12,8
Fort Winnebago.....	26	160.88	1	12,1
Portage.....	27	163.05	1	12,1

¹ Cost of old lock only. The total cost of lock, canal, dam, and rapids improvement is about \$5,000.

² Grand Rapids.

³ During navigation season.

part of data concerning locks and dams in operation July 1, 1913. called for by Senate resolution of Apr. 9, 1914—Continued.

Location.	No.	Miles from mouth.	Men.	Cost of construction.
ILLINOIS RIVER.				
Campsville, Ill.....		31.40	9	\$444,100.00
Grange, Ill.....		77.60	8	485,034.00
ILLINOIS AND MISSISSIPPI CANAL.				
Bureau, Ill.....	1	.50	1	43,263.04
Do.....	2	1.30	1	43,598.60
Do.....	3	2.00	1	40,687.10
Do.....	4	3.50	1	39,688.37
Do.....	5	4.70	1	40,596.20
Skilwa, Ill.....	6	6.50	1	42,944.48
Do.....	7	7.20	1	37,347.55
Do.....	8	8.20	1	36,930.86
Do.....	9	8.50	1	32,747.89
Do.....	10	10.20	1	34,549.94
Do.....	11	10.70	1	37,154.43
Do.....	12	11.50	1	36,476.36
yanet, Ill.....	13	12.50	1	32,869.11
Do.....	14	13.20	1	31,972.98
Do.....	15	13.90	1	30,324.44
Do.....	16	13.90	1	34,607.85
Do.....	17	14.20	1	32,975.11
Do.....	18	15.50	1	35,901.29
Do.....	19	16.10	1	34,620.29
Do.....	20	17.30	1	38,292.39
Do.....	21	17.60	1	39,632.51
lneral, Ill.....	22	28.90	1	41,863.97
kinson, Ill.....	23	37.90	1	41,356.46
neseo, Ill.....	24	48.10	1	47,034.32
reen River, Ill.....	25	53.50	1	40,479.10
Do.....	26	54.50	1	40,404.75
Do.....	27	57.00	1	39,077.16
lona, Ill.....	28	59.40	1	30,786.53
Do.....	29	61.70	1	36,631.54
ock Falls, Ill.....	(1)	57.20	1	32,712.57
ST. MARYS RIVER, MICH.				
ult Ste. Marie, Mich.....		50.00	100	$\left\{ \begin{array}{l} {}^2 983,335.00 \\ {}^3 2,837,338.00 \\ {}^4 910,940.00 \\ {}^5 1,018,465.00 \end{array} \right.$
GALENA RIVER.				
alena, Ill.....		8.50	2 or 3	100,000.00
COLUMBIA RIVER.				
scades, Oreg.....		155.00	4	3,823,273.81
YAMHILL RIVER.				
afayette, Oreg.....		8.00	1 or 2	72,164.83

¹ Guard lock.
² Weitzel Lock.

³ Poe Lock.
⁴ Canal to Poe Lock.

⁵ Canal to Weitzel Lock.

NOT REPORTED.

Congaree River, near Columbia, S. C., number of men.
Trinity River, Locks and Dams Nos. 1, 4, 6, cost of construction.
White River, Locks and Dams Nos. 1, 2, 3, number of men.
Kanawha River, Locks and Dams Nos. 2, 6, 7, 8, actual cost of dam: Locks and Dams Nos. 3, 4, 5, actual cost of lock and dam.
Ohio River, Lock and Dam No. 26, number of men.
Fox River, Locks and Dams Nos. 24 and 25, cost of construction.



